

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 89.09.09

ASSESSMENT REPORT 18083

MINING DIVISION: Omineca

PROPERTY: Chappelle
 LOCATION: LAT 57 17 00 LONG 127 06 00
 UTM 09 6350312 614537
 NTS 094E06E

CAMP: 051 Toodoggone Camp

CLAIM(S): Mining Lease 13
 OPERATOR(S): Multinational Min.
 AUTHOR(S): Carter, N.C.
 REPORT YEAR: 1988, 37 Pages
 COMMODITIES
 SEARCHED FOR: Gold, Silver, Copper, Lead, Zinc

GEOLOGICAL
 SUMMARY: Seven known vein systems occur in Triassic Takla Group augite andesites in the western part of the property. The veins strike northeast to west-northwest and are steeply dipping. Wallrocks are variably silicified and altered to sericite, clay minerals and carbonate with intensity increasing with proximity to the vein structures. The Takla Group rocks are overlain by gently dipping porphyritic flows and fragmental rocks of the Toodoggone volcanic sequence.

WORK
 DONE: Drilling
 DIAD 371.8 m 3 hole(s); NQ
 Map(s) - 1; Scale(s) - 1:12 000
 SAMP 32 sample(s) ; AU, AG, CU, PB, ZN

RELATED
 REPORTS: 09280
 MINFILE: 094E 026

LOG NO: 1207
FILE NO:

DIAMOND DRILLING REPORT
ON THE
CHAPPELLE GOLD PROPERTY

Toodoggone River Area
Omineca Mining Division
British Columbia

CHAPPELLE

NTS 94E/6E

Latitude: 57°17'N
Longitude: 127°06'W

BRITISH COLUMBIA
LAND SURVEY DEPARTMENT

18-083

OWNER: MULTINATIONAL RESOURCES INC.
AUTHOR: N.C. CARTER, Ph.D. P.Eng.
DATE: November 29, 1988

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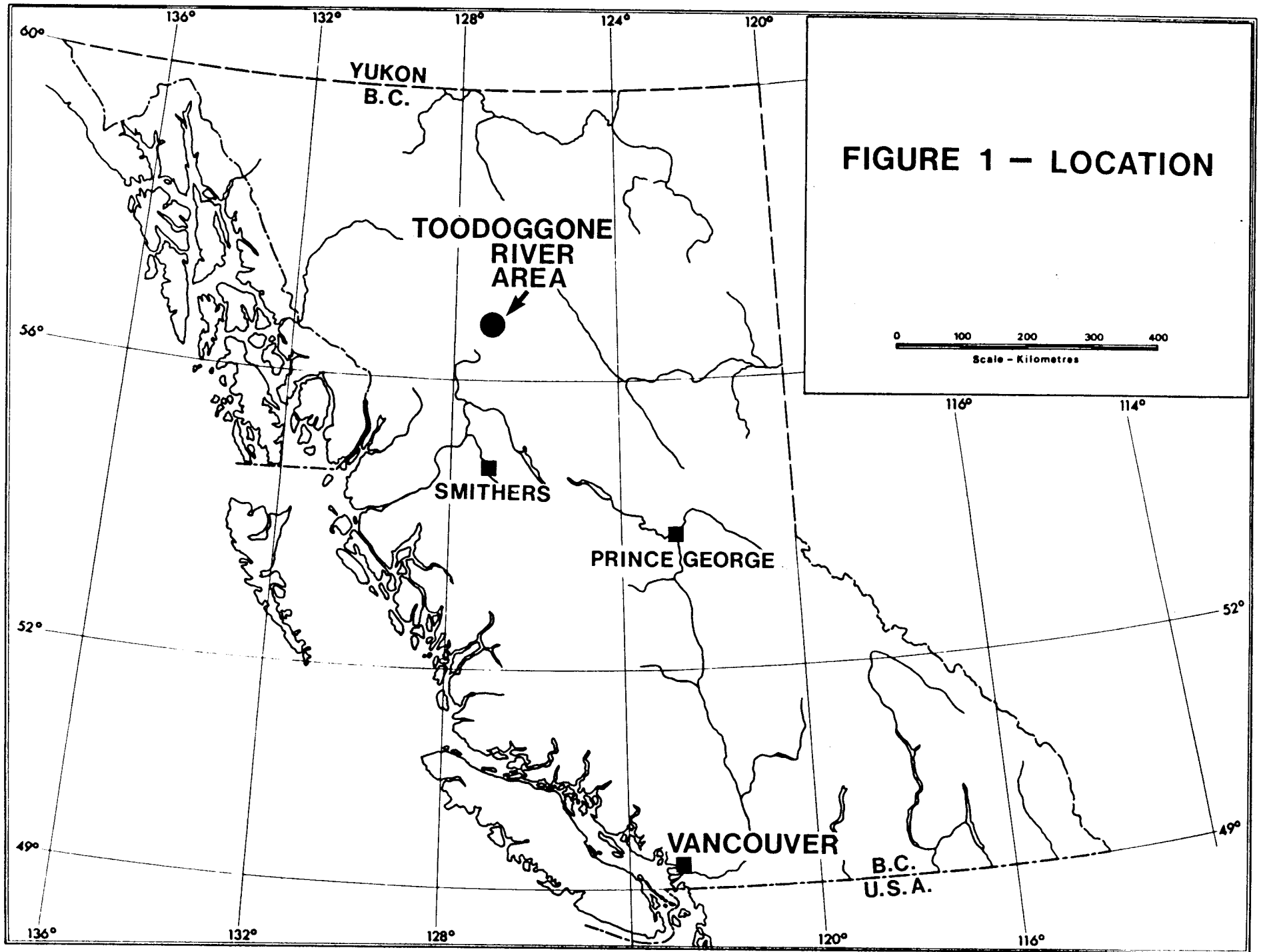
N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

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INTRODUCTION

Multinational Resources Inc., through Multinational Mining Inc. Joint Venture, completed a three-phase diamond drilling program on the Chappelle gold property in the Toodoggone River area of north-central British Columbia in 1987.

This report deals with three inclined holes drilled on Mining Lease No. 13 as part of the 1988 program.

LOCATION AND ACCESS

The Chappelle property includes a 35 km² area south of Toodoggone River in the western part of the Samuel Black Range 280 km north of Smithers (Figure 1). Principal mineralized zones, camp and mill are centred on Latitude 57°17' North, Longitude 127°06' West in NTS map-area 94E/6E.

Access to the property is by air from Smithers to the Sturdee Valley airstrip, a distance of 270 km. A 15 km all-weather road links the property with the airstrip (Figure 2).

The Omineca Resource Road extension into the Toodoggone area was serviceable in 1988 but use of this road is subject to prior agreement with Cheni Gold Mines Inc.

Facilities on site include a 70 person camp, a 90 tonnes per day mill and ancillary buildings.

PHYSICAL SETTING

The Chappelle property is situated in open, alpine terrain.

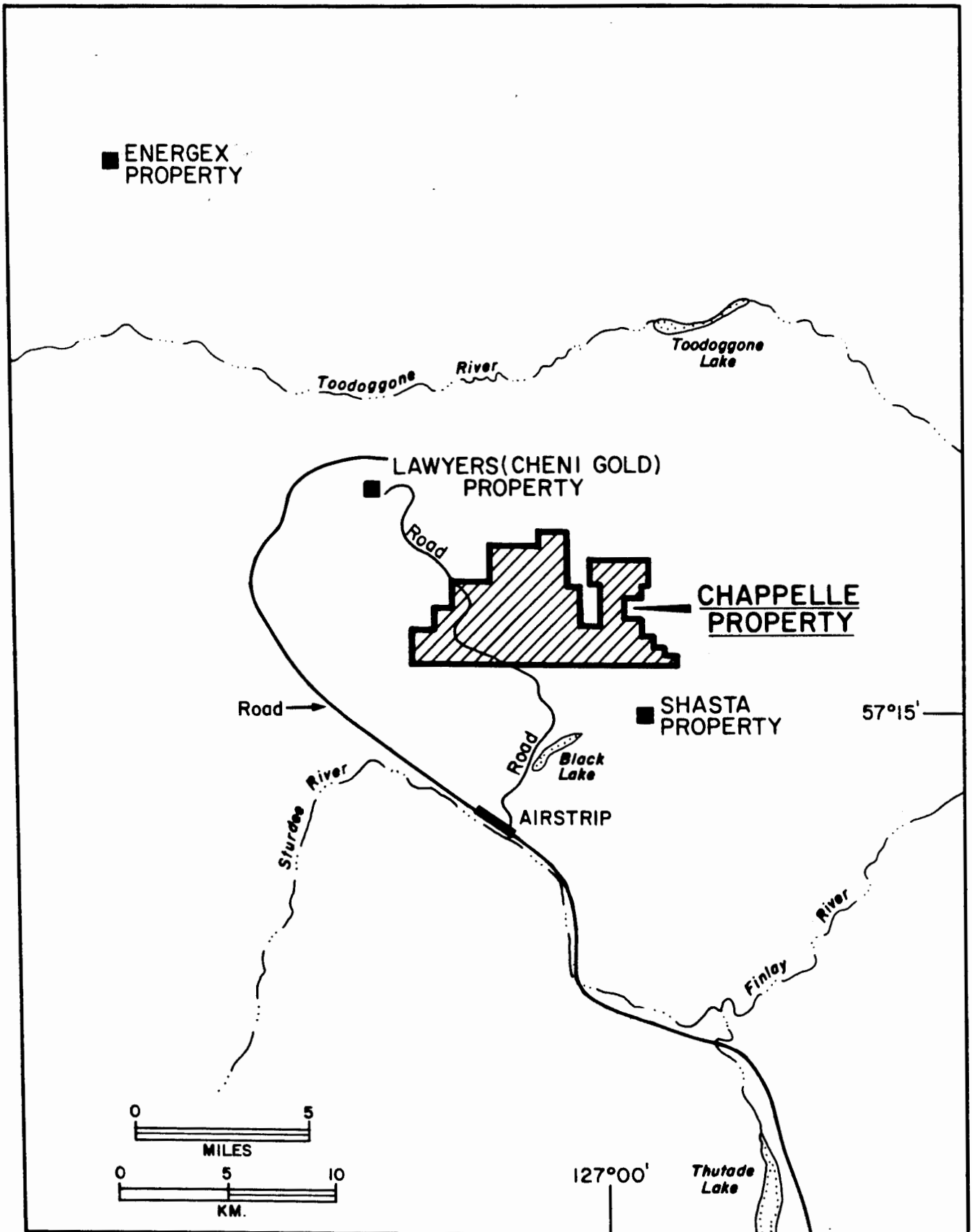


FIGURE 2 – LOCATION – CHAPPELLE PROPERTY

Sparse vegetation is restricted to valley bottoms and much of the claims area features alpine grasses and felsenmeer.

Elevations range from 1540 metres to more than 2000 metres above sea level.

HISTORY

Gold-silver mineralization was discovered on the Chappelle property by Kennco Explorations (Western) Limited in 1969. Several quartz vein structures were identified including the A Vein which was explored by hydraulic trenching and two short diamond drill holes.

Conwest Exploration Ltd. optioned the property in 1973 and constructed an airstrip at Black Lake (Figure 2) and a road to the property prior to driving a 200 metre adit to further explore the A Vein. Limited underground diamond drilling was also carried out but results were not encouraging and the option was terminated.

DuPont of Canada Exploration Limited acquired the property in 1974 and over the next five years completed 8700 metres of diamond drilling and 460 metres of underground development on the A Vein structure. A production decision was made in 1979 and an airstrip was constructed in the Sturdee River Valley to facilitate air freighting of all equipment including a 90 tonnes per day mill.

The project, known as Baker Mine, went on stream in May of 1981. Operations over a 31 month period included milling of 70,000 tonnes which yielded 1169.7 kg gold (37,606 ounces) and

23079.8 kg silver (742,117 ounces).

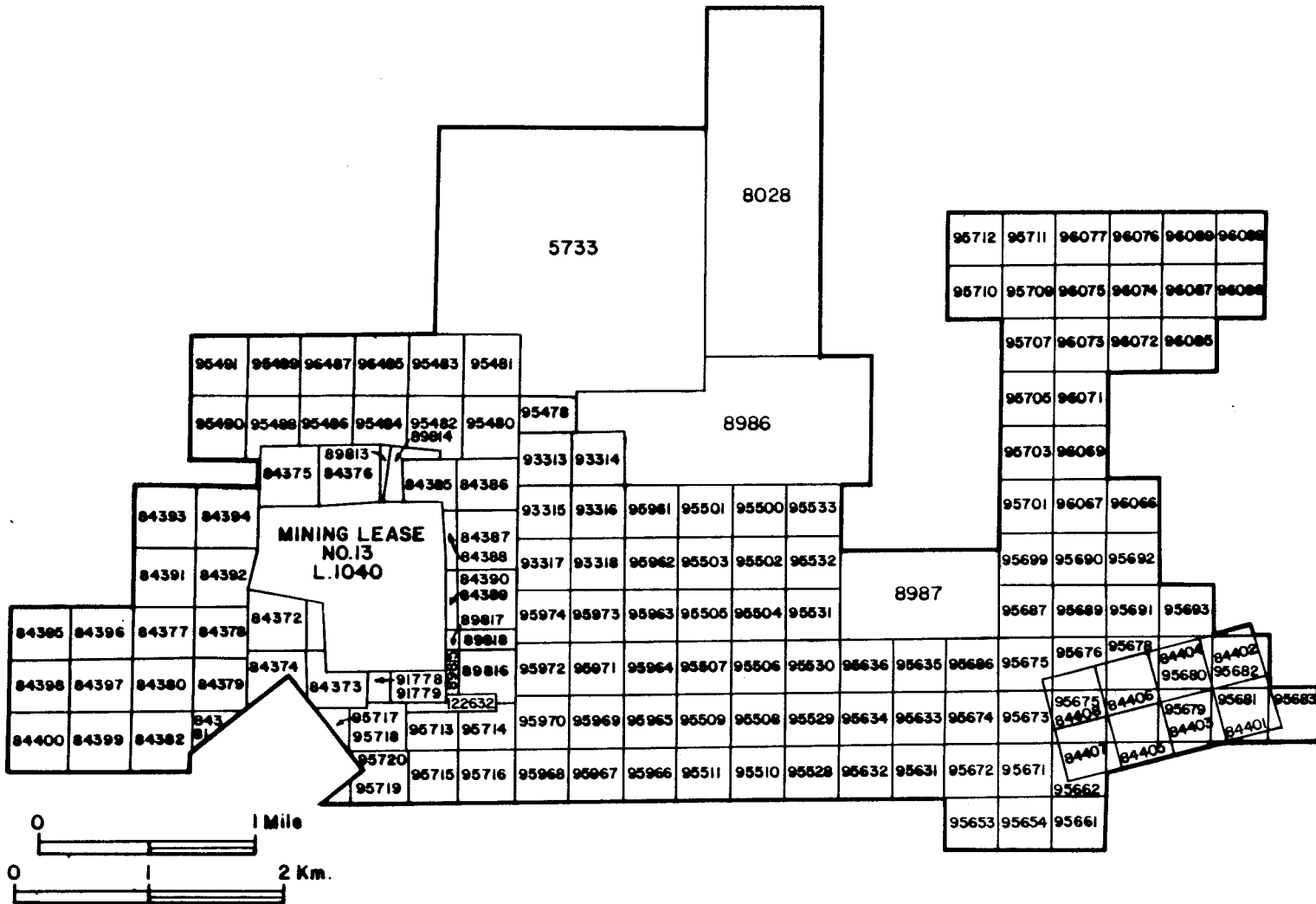
During this period, 4260 metres of diamond drilling was undertaken on the A Vein and several other zones in the mine area in an attempt to increase reserves. These efforts were not successful and operations ceased December 1,1983.

Multinational Resources Inc. acquired the mineral rights to the property in mid-1985 and carried out a program of heavy sediment sampling, trenching, resistivity surveys and 613 metres of diamond drilling on several zones in the vicinity of the former mine. This program also included two drill holes on the B Zone, one of which intersected significant gold and silver values.

This was followed up by 5647 metres of diamond drilling in 1986 and 1987 which work was successful in identifying a shoot containing good gold and silver grades within the B Zone.

MINERAL PROPERTY

The Chappelle property includes one Mining Lease (10 units), 158 2-post mineral claims and fractions and four Modified Grid claims comprising 44 mineral claim units, situated in the Omineca Mining Division. All claims are shown on Figure 3; details of those claims which have been grouped and on which assessment work is being applied by way of this report are as follows:



**MULTINATIONAL RESOURCES INC.
 CHAPPELLE GOLD PROPERTY
 MINERAL CLAIMS**

57°15'

127°05'

FIGURE : 3

<u>Claim Name</u>	<u>Units</u>	<u>Record Number</u>	<u>Expiry Date</u>
Mining Lease 13	10	L. 1040	N/A
CW #1 Fraction	1	122632	April 12,1993
Chappelle 55	1	91778	September 10,1993
Chappelle 56	1	91779	" "
Chappelle 83	1	95504	November 10,1994
Chappelle 84	1	95505	" "
Chappelle 96	1	95963	" "
Chappelle 111	1	95970	" "
Chappelle 112	1	95971	November 10,1992
Chappelle 114	1	95973	" "
Chappelle 184	1	95699	November 9,1994
Chappelle 199	1	96067	November 12,1994
Chappelle 201	1	96069	" "
Chappelle 203	1	96071	" "
Chappelle 204	1	96072	" "
Chappelle 217	1	96085	November 12,1991
Chappelle 218	1	96086	" "
Chappelle 219	1	96087	" "
Chappelle 220	1	96088	November 12,1990
Chappelle 221	1	96089	November 12,1991
Chappelle 248	1	95531	November 10,1994
Chappelle 249	1	95532	" "
Chappelle 250	1	95533	" "
Chappelle 256	1	95713	November 9,1989
Chappelle 257	1	95714	" "
Chappelle 258	1	95715	" "
Chappelle 259	1	95716	" "
MUT 1	10	8986	September 28,1988
MUT 2	6	8987	" "

1988 DIAMOND DRILLING PROGRAM

Three inclined holes, totalling 372 metres, were drilled on B Zone between July 3 and 10,1988.

The three holes were drilled on Mineral Lease No. 13 and locations are shown on Figure 4. Drill cores are stored in racks near the existing mill facility. Complete drill logs are included as Appendix I to this report and copies of analytical results are contained in Appendix II.

GEOLOGICAL SETTING

The Toodoggone River area is situated near the eastern margin of the Intermontane tectonic belt. The area is principally underlain by a Mesozoic volcanic sequence which is intruded by Jurassic granitic rocks and in part overlain by late Cretaceous-early Tertiary clastic sedimentary rocks.

The region is host to a number of significant gold (silver) deposits and prospects. The majority of these are proximal to regional fault structures and are associated with veins, stockworks and silicified zones developed in a distinctive volcanic lithology of lower Jurassic age known as Toodoggone volcanics.

By contrast, precious metals mineralization on the Chappelle property is principally hosted by slightly older, late Triassic Takla Group volcanic rocks immediately north of their contact with granitic rocks of the Black Lake stock. Older, Permian age limestones and subordinate cherts are in thrust fault contact with Takla Group rocks in the southwestern part of the property.

Seven known vein systems occur in Takla Group augite andesites in the western part of the property. The veins strike northeasterly to west-northwest and are steeply dipping. Wallrocks are variably silicified and altered to sericite, clay minerals and carbonate with intensity increasing with proximity to vein structures. Pyrite is ubiquitous in country rocks, generally in the 3-5% range. Prominent gossans in Takla Group rocks are a feature of the central and western claims area.

Takla Group rocks are overlain by gently dipping porphyritic flows and fragmental rocks of the Toodoggone sequence near the north and west property boundaries. Toodoggone volcanics also underlie much of the eastern claims area. Quartz-feldspar porphyry dykes, spatially related to several of the quartz veins, are believed to represent feeders for some of the Toodoggone volcanic rocks.

Initial work on the Chappelle property showed best gold-silver grades to be contained in the A Vein which strikes northeast and dips steeply northwest. While the structure has been traced over a strike length in excess of 400 metres, significant precious metals grades were found to be contained in a flat-lying shoot 200 metres in length by 3 metres wide and extending to a depth of 40 metres below surface. Reserve estimates prior to mining were 95,000 tonnes grading 33.9 grams gold (0.99 oz/ton) and 680.2 grams silver (19.84 oz/ton) per tonne, using a cut-off grade of 12 grams/tonne (0.35 oz/ton) gold equivalent.

Gold and silver values in the A Vein are present as electrum and argentite. Base metals minerals - chalcopyrite, sphalerite and galena, are commonly associated with higher gold-silver grades.

The A Vein is segmented by numerous cross-faults and dip-slip faults with the result that wallrocks, particularly in the hangingwall, are badly broken.

Drilling by Multinational between 1985 and 1987 was mainly directed to the B Zone, 365 metres northeast of, and on strike

with A Vein. B Zone is similar in style and structure to A Vein and has been traced over a northeast strike length of more than 200 metres and to a depth on nearly 200 metres. Better gold-silver grades are contained within a steeply northeast plunging shoot within the plane of the vein.

The surface expression of B Zone is a network of narrow quartz veins and veinlets having an overall west-northwest strike with moderate northeast dips. These are interpreted as being part of the hangingwall alteration zone which also features moderate to intense quartz-carbonate-sericite-clay minerals alteration of the volcanic host rocks. Precious metals values within the alteration zone are low, but some of the veins contain significant lead and zinc values.

1988 DIAMOND DRILLING RESULTS

The three inclined holes, which are the subject of this report, were drilled to test for a possible extension or repetition of B Zone mineralization at relatively shallow depths along strike to the northeast. All holes were drilled on southeast azimuths (Figure 4).

Hole M88-01 encountered bad ground conditions and consequent poor core recovery and was abandoned at a depth of 90.5 metres, short of the projected depth.

Hole M88-02 encountered some quartz veining in addition to magnetite-rich sections in altered volcanic host rocks. Quartz and quartz breccia veins were intersected in hole M88-03 which

also cut numerous felsic dykes in the upper 76 metres.

32 samples were collected from drill cores and geochemically analyzed for gold, silver, copper, lead and zinc. Low values were obtained for all elements.

CONCLUSIONS

While a number of quartz veins and silicified zones were intersected in the three holes drilled, values for all elements were low.

Potential for eextension of B Zone mineralization along strike to the northeast may exist north of the area drilled to date.

COST STATEMENT

Diamond Drilling -	
371.8 metres @ \$94.17/metre	\$35,014.00
(July 3- 10,1988)	
Drilling materials - mud, fuel etc.	\$1,672.75
Bulldozer time - 20 hours @ \$90/hour	\$1,800.00
Analytical Costs	
32 samples @ \$15.75/sample	\$504.00
Room and Board	
July 2 - 12,1988 - 11 days @ \$350/day	\$3,850.00
Supervision	
N.C. Carter - July 2 - 12,1988	\$3,850.00
C. VanBuskirk - July 2 - 12,1988	\$1,925.00
Report Preparation	
N.C. Carter - compilation	\$1,200.00
Drafting	\$50.00
Duplicating	\$30.00
Report binders	\$14.25
Secretarial	\$90.00
Total	<u>\$50,000.00</u>

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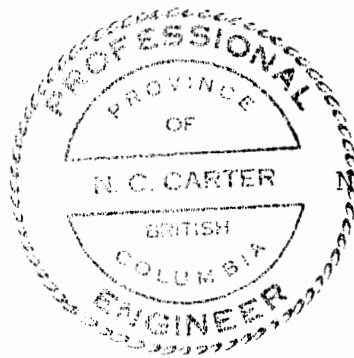
Nelles, David M. (1985): Report on the 1985 Exploration Programme-
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Mining Division, British Columbia-
private report for Multinational Resources Inc.

AUTHOR'S QUALIFICATIONS

I, NICHOLAS C. CARTER, do hereby certify that:

1. I am a Consulting Geologist resident at 1410 Wende Road, Victoria, British Columbia.
2. I am a graduate of the University of New Brunswick with B.Sc. (1960), Michigan Technological University with M.S. (1962) and the University of British Columbia with Ph.D. (1974).
3. I have been a registered Professional Engineer in the Association of Professional Engineers of British Columbia since 1966.
4. I have practised my profession in eastern and western Canada and in parts of the United States over the past 25 years.
5. This report describes the results of three diamond drill completed on the Chappelle property in July of 1988 under my supervision.

Dated at Victoria, British Columbia this 29th day of November, 1988



N.C. Carter
N.C. Carter, Ph.D. P.Eng.

N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

APPENDIX I

DIAMOND DRILL HOLE LOGS

DIAMOND DR . RECORD

PROPERTY CHAPPELLE

HOLE No. M88-01

DIP TEST		
Footage	Angle	
	Reading	Corrected
90.5 m	50°	43°

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 3, 1988
 Date Finished July 6, 1988
 Date Logged _____

Lat. 2334.57
 Dep. 12361.80
 Bearing -45° @ 140°
 Elev. Collar 1811.37 m

Total Depth 90.5 m
 Logged By N.C. Carter
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO										
0	6.1		CASING								
6.1	16.7	65	ANDESITE PYROXENE PORPHYRY - 1-4mm px phenocrysts in fg medium green matrix. Finely disseminated pyrite in matrix and on fractures which are iron stained @ 35-45° to CA. Badly broken throughout- Gouge 12.2-12.8m- 4mm qtz vlt @ 40° @ 16.5m								
16.7	23.2	80	ANDESITE PX PPY - lt grey green-fg matrix with crowded 2-4mm px phenos - 5 cm intrusive bx @ 17m - lt grey siliceous matrix with subrounded granitic frags 1% finely dissem py in matrix -oxidized fractures - broken-few gouge zones								
23.2	25.9	90	ANDESITE PX PPY - medium green matrix with 2-3% dissem pyrite - FE stain- Fractures @ 25-40° to CA								
25.9	30.8	90	ANDESITE PPY - lt grey green matrix, 1 cm lt grey dyke @ 45° @ 26.2m Bx zone with 4mm qtz str 26.7-27.0m Variably broken and bx - some gouge @ 29m								
30.8	32.9	90	ANDESITE PPY as previous - bx in part 4mm py str @ 45° @ 31.9m. Fe stained frs @ 45° to CA - broken at end of section								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M88-01

DIP TEST		
Footage	Angle	
	Reading	Corrected

2

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Bearing _____	Logged By _____
Date Begun _____	Date Finished _____	Elev. Collar _____	Claim _____
Date Logged _____			Core Size _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO										
32.9	38.2	95	ANDESITE PPY - num carb strs @ 45° to CA Granitic dyke material - 10cm @ 33.8m parallel to CA - Green mica gouge @ 33.7m - badly broken from 35.8m - recovery 50%								
38.2	40.2	90	ANDESITE PPY - propylitic altn of px phenos - green chloritic 4mm fr @ 45° @ 39m								
40.2	47.2	90	ANDESITE PPY - variable propylitic altn - green siliceous dykes to 5cm parallel to CA @ 41.5m - sulfide content 2% Fe stained frs end @ 43.3 m - Recovery down to 50% last section								
47.2	53.9	90	ANDESITE - ppy texture not as pronounced - increased sulfide content to 5% on frs Fairly numerous hairline qtz strs - some with K-feldspar								
53.9	57.0	10	GOUGE - cave - some drusy quartz								
57.0	57.6	90	ANDESITE PPY								
57.6	57.9	95	FELSITE DYKE - K-feldspar altn								
57.9	59.1	95	ANDESITE PPY - up to 5% pyrite on frs Few qtz strs								

DIAMOND DRILL RECORD

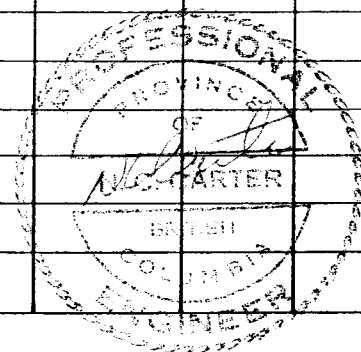
PROPERTY CHAPPELLE

HOLE No. M88-01

DIP TEST		
Angle		
Footage	Reading	Corrected

Hole No. _____ Sheet No. 3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb Zn (ppm)
FROM	TO										
59.1	61.0	95	ANDESITE - skarn altn- garnet-epidote-pyrite- sulfides to 5%								
61.0	62.5	80	ANDESITE PX PPY - occ 2mm qtz strs @ 65° 3% dissem py on frs								
62.5	74.1	35	ANDESITE - badly broken - cave, gouge core frags less than 2 cm Increased sulfide content to 5%								
74.1	82.3	40	ANDESITE - gradational to dacite with fairly num 2-4mm qtz vlts @ 60°. Py to 5% on frs - badly broken-cave								
82.1	84.4	25	QUARTZ VEINING - grey qtz frags-drusy in part-very finely dissem py-some carb Note - only 0.6m ground core in this section	24806	82.30	84.43	1.13	58	3.9	325	123 250
84.4	90.5	25	DACITE - qtz vlts @ 60°- dissem py-ground core - 1.6m only in 6.1m section	24807	84.43	90.53	6.10	77	2.2	430	68 168
			END OF HOLE (Abandoned)								



DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M88-02

DIP TEST		
Footage	Angle	
	Reading	Corrected
136.2	58°	51°

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 6, 1988
 Date Finished July 9, 1988
 Date Logged _____

Lat. 2376.95
 Dep. 12483.65
 Bearing -50° @ 140°
 Elev. Collar 1864.31 m

Total Depth 136.2m
 Logged By N.C. Carter
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb
FROM	TO										Zn (ppm)
0	24.4		CASING								
24.4	29.3	85	DACITE - fragmental in part-qtz-carb strcs 2-4mm @ 45° to CA - broken, little py								
29.3	30.6	95	DACITE - variably qtz veined with carb- 3% sulfide - last 0.3m is qtz vein brecciated	24808	29.26	30.02	0.76	19	1.7	63	44 95
				24809	30.02	30.63	0.61	23	1.8	147	26 52
30.6	31.5	95	DACITE - carb altn-lt brown								
31.5	33.2	90	ANDESITE - fragmental- lapilli size frags - badly broken								
33.2	34.1	95	ANDESITE PPY								
34.1	38.7	90	ANDESITE - some bleaching to medium brownish green - some qtz strcs and carb 30-60° - badly broken to 35.7m - last 1.2 m gradational to andesite ppy								
38.7	42.5	95	ANDESITE - uniform texture-minor qtz strcs								
42.5	50.9	95	DACITE- frag texture in part - siliceous lt grey to green - 3% dissem py qtz strcs @ 45° - qtz magnetite 43.6-44m; 46.2m	24810	43.59	44.04	0.45	21	1.6	160	23 64
50.9	51.0	90	MUD SEAM - clay								
51.0	53.6	95	ANDESITE - frag texture in part plus px phenos								

DIAMOND DR - RECORD

PROPERTY CHAPPELLE

HOLE No. M88-02

DIP TEST		
		Angle
Footage	Reading	Corrected

2

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb
FROM	TO										Zn (ppm)
53.6	55.2	95	DACITE - lt grey-qtz strs @ 45° to CA; variably silicified - up to 5% pyrite Gouge 53.9-54.5m	24811	53.65	-55.17	1.52	38	1.1	170	21 63
55.2	59.7	95	DACITE - lithic tuff-4mm crowded frags- grey-green; cut by K-feldspar altn bands 58.7-58.9m, 59.5; @ 60° to CA- some qtz and py strs - sections are 2-5cm wide								
59.7	60.0	95	K-FELDSPAR ALTN - felsic dyke? - aphanitic, pink - 2cm gouge @ 60° in central part of section								
60.0	69.8	95	DACITE LITHIC TUFF - as previous- Occ 2 mm py seams with bleaching 2cm mud seam @ 64.2m - moderately broken core								
69.8	73.5	95	DACITE - locally bx with K-feldspar flooding - magnetite-qtz strs 69.8-69m, 71.9-72.5m								
73.5	75.7	95	DACITE as previous-initial section qtz veined with K-feldspar-pyrite- carbonate 73.9-75.3m Magnetite up to 20%	24812	73.46	-74.52	1.06	32	1.7	455	15 73
			1mm magnetite strs last 0.3m. py up to 5-10%	24813	74.52	-75.68	1.16	22	2.0	520	18 72
75.7	78.2	95	DACITE as previous - K-feldspar at end								

DIAMOND DR. RECORD

PROPERTY CHAPPELLE

HOLE No. M88-02

DIP TEST		
		Angle
Footage	Reading	Corrected

3

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Bearing _____	Logged By _____
Date Begun _____	Date Finished _____	Elev. Collar _____	Claim _____
Date Logged _____			Core Size _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Cu	Pb	Zn
								(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
78.2	79.2	95	DACITE - magnetite strs and bx zones 2% pyrite locally	24814	78.18	79.25	1.07	99	1.6	560	17	75
79.2	82.9	90	DACITE - sheared, broken @ 40° to CA with some qtz-py strs - some 3cm lithic frags									
82.9	90.2	90	ANDESITE PX PPY - dk green 2-4mm px phenos 1-2mm qtz strs @ varying angles to CA Broken last 1m									
90.2	93.6	0	LOST CORE									
93.6	96.6	0	0.2m core only - Andesite Px Ppy									
96.6	104.5	80	DACITE - badly broken - local poor core recovery, 0.1m qtz carb @ 60° to CA @ 97.8m. Magnetite rich section 98.1-98.9m									
104.5	105.9	80	MAGNETITE RICH SECTION - up to 5% pyrite									
105.9	110.5	80	DACITE - grey to buff - local K-feldspar Qtz rich section with pyrite @ 107.6m Badly broken									
110.5	111.4	80	DACITE - grey, bx-2cm qtz frags; 5% dissem py; shearing and fracturing @ 30° to CA	24815	110.49	111.4	0.91	77	2.9	340	27	44

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

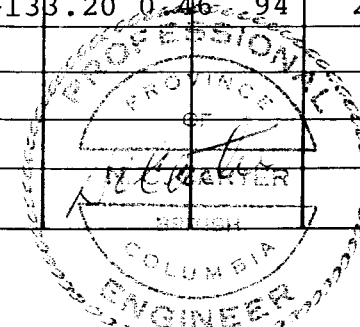
HOLE No. M88-02

DIP TEST		
Footage	Angle	
	Reading	Corrected

4

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb / Zn (ppm)
FROM	TO										
111.4	118.9	60	As previous - increased qtz content and significant gouge zones-poor recovery; 40% 114.9-118m. Bx with angular frags of qtz and up to 5% py-sheared, clay-carb throughout, particularly at end - 50° to CA	24816	111.40	113.23	1.83	19	1.8	220	20
				24817	113.23	115.06	1.83	38	2.7	475	22
				24818	115.06	116.89	1.83	56	2.2	530	15
118.9	119.2	-	MUD SEAM - clay-carbonate @ 45° to CA	24819	116.89	118.87	1.98	43	1.7	197	23
119.2	120.4	-	TRI-CONED SECTION	24820	118.87	119.17	0.30	57	1.3	375	18
120.4	125.1	95	DACITE - buff to pink-K-feldspar altn Finely dissem py-siliceous	24821	120.40	121.92	1.52	59	1.6	485	26
125.1	128.9	95	DACITE - brecciated-angular 2-3cm frags Magnetite sections 125.4,126.8m								104
128.9	132.3	95	DACITE -buff to pink, aphanitic, Numerous 1-2mm qtz str @ 40° to CA with finely dissem py-cut by zeolite 2mm fractures @ 20° to CA								
132.3	136.2	95	ANDESITE-DACITE lithic tuff, bx in part; Some epidote altn-bleached px phenos; Qtz veined 132.3,134.6m - fairly num qtz str with K-feldspar altn @ 132.7m 10 cm gouge @ 135.9	24822	132.28	132.74	0.46	138	3.7	1400	23
				24823	132.74	133.20	0.46	94	2.3	865	20
											113
			END OF HOLE								



DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M88-03

DIP TEST		
Footage	Angle	
	Reading	Corrected
145.1	57°	50°

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 9, 1988
 Date Finished July 10, 1988
 Date Logged _____

Lat. 2360.44
 Dep. 12422.60
 Bearing -50° @ 140°
 Elev. Collar 1838.61m

Total Depth 145.1m
 Logged By N.C. Carter
 Claim Mining Lease 13
 Core Size NO

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb Zn (ppm)
FROM	TO										
0	12.2		CASING								
12.2	13.9	45	ANDESITE PX PPY - broken, poor recovery								
13.9	20.5	95	ANDESITE PX PPY - lt green, fresh 2-4mm px phenos, 3% dissem py-po. Occ 2-4mm white qtz str								
20.5	21.8	90	QTZ BX VEIN - upper contact sharp @ 60° to CA; 2 stages veining - cut by 4mm qtz str - lcm ang rock frags locally - dissem py, green mica Lower contact sheared	24824	20.51	21.79	1.28	18	0.8	17	21 37
21.8	23.6	95	ANDESITE PX PPY - initial 0.4m sheared gouge - fairly fresh as previous, 1-2% dissem py								
23.6	24.3	95	FELSIC DYKE - lt grey to buff, finely dissem py - sharp upper and lower contacts @ 20°								
24.3	42.1	95	ANDESITE PX PPY - lithic frags of same composition to 3cm at start of section, 1-2mm qtz str prevalent - 8cm fault gouge @ 45° to CA @ 37.5m. Frags increase in size near end of section								
42.1	42.6	95	FELSIC DYKE - aphanitic lt pink to buff very finely dissem pyrite, siliceous, gradational contacts								

DIAMOND DR . RECORD

PROPERTY CHAPPELLE

HOLE No. M88-03

DIP TEST		
		Angle
Footage	Reading	Corrected

2

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
42.6 53.8	95	ANDESITE LITHIC TUFF BRECCIA-andesite px ppy matrix-frags of similar composition plus exotic varieties. Broken @ 46.9 and 49.1m								
53.8 55.2	95	FELSIC PPY DYKE- abundant epidote in matrix (buff) pink feldspar phenos to 2-4mm plus qtz eyes. Lower contact 5cm gouge, finely dissem pyrite.								
55.2 56.5	95	ANDESITE TUFF as previous								
56.5 56.8	95	FELSIC DYKE - lower contact sheared								
56.8 60.8	95	ANDESITE TUFF as previous. Qtz strrs more prevalent broken sections								
60.8 61.3	95	FELSIC DYKE								
61.3 63.7	95	ANDESITE LITHIC TUFF								
63.7 64.8	95	FELSIC DYKE - some epidote strrs								
64.8 71.0	95	ANDESITE LITHIC TUFF								
71.0 72.5	95	FELSIC BX DYKE - nearly parallel to CA 1 cm rounded pink frags in lt grey matrix								
72.5 75.3	95	ANDESITE LITHIC TUFF - rounded 2cm frags								

DIAMOND DR. RECORD

PROPERTY CHAPPELLE

HOLE No. M88-03

DIP TEST		
		Angle
Footage	Reading	Corrected

3

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Bearing _____	Logged By _____
Date Begun _____	Date Finished _____	Elev. Collar _____	Claim _____
Date Logged _____			Core Size _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Cu	Pb
								(ppb)	(ppm)	(ppm)	Zn (ppm)
75.3	76.5	95	FELSIC DYKE - pink, ppy texture								
76.5	85.9	95	ANDESITE PX PPY- aphanitic in part								
85.9	88.7	95	FELSIC DYKE -pink to buff, siliceous, inclusions of andesite, badly broken 15cm qtz bx @ 88.2m- changes to lt green at end of section - lower contact parallel to CA								
88.7	93.3	95	ANDESITE PX PPY - badly broken								
93.3	94.0	95	ANDESITE PPY - qtz-K-feldspar flooding								
94.0	100.0	95	ANDESITE PX PPY-lithic tuff, 2-4mm white qtz strs @ 30° to CA Finely dissem py-po								
100.0	101.8	95	DACITE- buff, aphanitic, oec qtz strs. Qtz bx vein at start - upper contact @ 40° lower sheared @ 50°	24825	100.04	100.83	0.79	21	1.2	131	20 50
101.8	103.3	95	DACITE - buff, pahanitic								
103.3	105.8	95	DACITE - Quartz-sericite-pyrite altn closely spaced 2-4mm qtz strs @ 50°. 3% pyrite in frs in vlts. Incresed qtz near end of section								
105.8	107.5	95	QTZ VEINING - QSP ALTN	24826	105.83	107.51	1.68	19	0.7	140	16 29

DIAMOND DR. RECORD

PROPERTY CHAPPELLE

HOLE No. M88-03

DIP TEST		
Footage	Angle	
	Reading	Corrected

4

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Bearing _____	Logged By _____
Date Begun _____	Date Finished _____	Elev. Collar _____	Claim _____
Date Logged _____			Core Size _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Cu	Pb	Zn
								(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
107.5	108.8	95	QTZ VEINING - up to 50% qtz, dark partings @ 60° - 3% pyrite	24827	107.51	108.51	1.00	38	0.8	18	12	12
108.8	116.1	95	DACITE-buff, aphanitic, qtz strs @ 50°, dk grey, approaching stockwork	24828	108.51	110.03	1.52	102	0.8	94	11	26
116.1	118.7	95	GREEN PPY DYKE-chilled upper contact @ 70° post qtz veining- lt brown matrix with 2-4mm epidotized hblde phenos and lmm qtz eyes. 1-2cm rounded qtz frags plus granite-brecciated, sheared									
118.7	119.8	95	DACITE - qtz veining up to 50% Bx and sheared	24829	118.72	119.79	1.07	43	1.2	445	18	53
119.8	124.0	95	DACITE - buff, 4mm-1cm qtz vlts @ 45°									
124.0	126.6	95	DACITE - Qtz veining, bx, local green mica - 3% pyrite in seams	24830	124.66	126.64	1.98	57	1.1	295	17	50
126.6	129.2	95	DACITE - banded grey qtz vlts - 1cm @ 20° plus occ white qtz lenses									
129.2	130.9	95	DACITE as previous-more close spaced vlts with 3% py	24831	129.17	130.85	1.68	36	0.9	125	25	51
130.9	131.5	95	QTZ VEIN - carb altn initially, bx with epidote in latter section	24832	130.85	131.52	0.67	0.007 (oz/t)	0.06 (oz/t)	130	33	152
131.5	133.2	95	DACITE as previous - banded grey qtz vlts	24833	131.52	133.20	1.68	41	2.4	540	20	68

DIAMOND DRILL RECORD

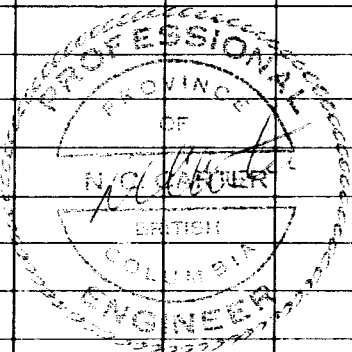
PROPERTY CHAPPELLE

HOLE No. M88-03

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 5 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Cu	Pb
								(ppb)	(ppm)	(ppm)	Zn (ppm)
133.2	136.3	95	ANDESITE - bleached at start of section possibly K-feldspar - prominent 2-4mm px phenos - some qtz str								
136.3	137.4	95	DACITE - upper contact 2cm qtz vein @ 45° to CA	24834	136.58	137.74	1.16	83	3.2	295	30 97
137.4	139.2	95	QTZ BX VEIN - sulfide content to 10%	24835	137.74	139.20	1.46	0.005 (oz/t)	0.07 (oz/t)	76	36 44
139.2	140.4	95	DACITE - irregular qtz lenses	24836	139.20	140.39	1.19	41	2.8	630	49 100
140.4	141.5	95	SHEAR ZONE - qtz frags-contacts @ 45° - up to 10% pyrite	24837	140.39	141.46	1.07	64	2.4	180	27 54
141.5	142.2	95	DACITE - few qtz str								
142.2	145.1	95	ANDESITE fg uniform texture-limited qtz veining - minor bleaching at end of section with epidote								
			END OF HOLE								



APPENDIX II

ANALYTICAL RESULTS



**• EN
LABORATORIES LTD.**

SPECIALISTS IN MINERAL ENVIRONMENTS
• CHEMISTRY • ANALYSIS • RESEARCH • QUALITY CONTROL

705 WEST 15TH STREET
 VANCOUVER, B.C. CANADA V7M 1T2
 TELEPHONE (604) 980-5814 OR (604) 988-4524
 TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
 33 EAST IROQUOIS ROAD
 P.O. BOX 867
 TIMMINS, ONTARIO CANADA P4N 7G7
 TELEPHONE: (705) 264-9996

Certificate of GEOCHEM

Company: MULTINATIONAL MINING
 Project: CHAPPELLE
 Attention: N. C. CARTER/W. CLANCEY

File: 8-989/P1
 Date: JULY 23/88
 Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PPB	CU PPM	PB PPM	ZN PPM	AG PPM
24806	58	325	123	2150	3.9
24807	77	430	68	168	2.2
24808	19	63	44	95	1.7
24809	23	147	26	52	1.8
24810	21	160	23	64	1.6

24811	38	170	21	63	1.1
24812	32	455	15	73	1.7
24813	22	520	18	72	2.0
24814	99	560	17	75	1.6
24815	77	340	27	44	2.9

24816	19	220	20	38	1.8
24817	38	475	22	83	2.7
24818	56	530	15	60	2.2
24819	43	197	23	73	1.7
24820	57	375	18	84	1.3

24821	59	485	26	104	1.6
24822	138	1400	23	90	3.7
24823	94	865	20	113	2.3
24824	18	17	21	37	0.8
24825	21	131	20	50	1.2

24826	19	140	16	29	0.7
24827	38	18	12	12	0.8
24828	102	94	11	26	0.8
24829	43	445	18	53	1.2
24830	57	295	17	50	1.1

24831	36	125	25	51	0.9
24833	41	540	20	68	2.4
24834	83	295	30	97	3.2
24836	41	630	49	100	2.8
24837	64	180	27	54	2.4

Certified by _____

MIN-EN LABORATORIES LTD.



• EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOTECHNICAL

705 WEST 15TH STREET
VANCOUVER, B.C. CANADA V7M 1T2
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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: MULTINATIONAL MINING INC.
Project: CHAPPELLE
Attention: N.C. CARTER/W. CLANCEY

File: 8-989/P1
Date: JULY 22/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	AG G/TONNE	AG OZ/TON	CU PPM	PB PPM	ZN PPM
24832	.25	0.007	2.0	0.06	130	33	152
24835	.17	0.005	2.5	0.07	76	36	44

MINERAL ENVIRONMENTS LABORATORIES LTD.

APPENDIX III

CHAPPELLE PROPERTY MINERAL CLAIMS

CHAPPELLE PROPERTY - MINERAL CLAIMS

<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>MONTH OF RECORD</u>	
Mining Lease No. 13 (10 Units)		September	* ****
Chappelle # 11	84371	February	
Chappelle # 12	84372	February	*
Chappelle # 13	84373	February	
Chappelle # 14	84374	February	*
Chappelle # 15	84375	February	
Chappelle # 16	84376	February	
Chappelle # 17	84377	February	
Chappelle # 18	84378	February	
Chappelle # 19	84379	February	
Chappelle # 20	84380	February	
Chappelle # 21	84381	February	*
Chappelle # 22	84382	February	*
Chappelle # 25	84385	February	
Chappelle # 26	84386	February	***
Chappelle # 27	84387	February	***
Chappelle # 28	84388	February	***
Chappelle # 29	84389	February	***
Chappelle # 30	84390	February	***
Chappelle # 33	84391	February	
Chappelle # 34	84392	February	
Chappelle # 35	84393	February	
Chappelle # 36	84394	February	
Chappelle # 37	84395	February	*
Chappelle # 38	84396	February	*
Chappelle # 39	84397	February	*
Chappelle # 40	84398	February	*
Chappelle # 41	84399	February	*
Chappelle # 42	84400	February	*
Chappelle # 43	89813	July	
Chappelle # 44	89814	July	
Chappelle # 45	89815	July	*
Chappelle # 46	89816	July	*
Chappelle # 47	89817	July	***
Chappelle # 48	89818	July	***
Chappelle # 49	93313	September	***
Chappelle # 50	93314	September	***
Chappelle # 51	93315	September	***
Chappelle # 52	93316	September	
Chappelle # 53	93317	September	
Chappelle # 54	93318	September	
Chappelle # 55	91778	September	** *****
Chappelle # 56	91779	September	** *****
Chappelle # 57	95478	November	***
Chappelle # 59	95480	November	

<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>MONTH OF RECORD</u>	
Chappelle # 60	95481	November	
Chappelle # 61	95482	November	
Chappelle # 62	95483	November	
Chappelle # 63	95484	November	
Chappelle # 64	95485	November	
Chappelle # 65	95486	November	
Chappelle # 66	95487	November	
Chappelle # 67	95488	November	
Chappelle # 68	95489	November	
Chappelle # 69	95490	November	
Chappelle # 70	95491	November	
Chappelle # 79	95500	November	*
Chappelle # 80	95501	November	*
Chappelle # 81	95502	November	*
Chappelle # 82	95503	November	*
Chappelle # 83	95504	November	* ****
Chappelle # 84	95505	November	* ****
Chappelle # 85	95506	November	*
Chappelle # 86	95507	November	*
Chappelle # 87	95508	November	*
Chappelle # 88	95509	November	*
Chappelle # 89	95510	November	*
Chappelle # 90	95511	November	*
Chappelle # 94	95961	November	*
Chappelle # 95	95962	November	*
Chappelle # 96	95963	November	* ****
Chappelle # 97	95964	November	*
Chappelle # 98	95965	November	*
Chappelle # 99	95966	November	*
Chappelle # 100	95967	November	*
Chappelle # 101	84401	February	
Chappelle # 102	84402	February	
Chappelle # 103	84403	February	
Chappelle # 104	84404	February	
Chappelle # 105	84405	February	
Chappelle # 106	84406	February	
Chappelle # 107	84407	February	
Chappelle # 108	84408	February	
Chappelle # 109	95968	November	*
Chappelle # 110	95969	November	*
Chappelle # 111	95970	November	* ****
Chappelle # 112	95971	November	* ****
Chappelle # 113	95972	November	*
Chappelle # 114	95973	November	* ****
Chappelle # 115	95974	November	
Chappelle # 116	95631	November	*
Chappelle # 117	95632	November	*
Chappelle # 118	95633	November	*
Chappelle # 119	95634	November	*
Chappelle # 120	95635	November	*

<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>MONTH OF RECORD</u>	
Chappelle # 121	95636	November	*
Chappelle # 138	95653	November	*
Chappelle # 139	95654	November	*
Chappelle # 146	95661	November	*
Chappelle # 147	95662	November	*
Chappelle # 156	95671	November	*
Chappelle # 157	95672	November	*
Chappelle # 158	95673	November	*
Chappelle # 159	95674	November	*
Chappelle # 160	95675	November	*
Chappelle # 161	95676	November	*
Chappelle # 162	95677	November	*
Chappelle # 163	95678	November	*
Chappelle # 164	95679	November	*
Chappelle # 165	95680	November	*
Chappelle # 166	95681	November	*
Chappelle # 167	95682	November	*
Chappelle # 168	95683	November	*
Chappelle # 171	95686	November	*
Chappelle # 172	95687	November	*
Chappelle # 174	95689	November	*
Chappelle # 175	95690	November	*
Chappelle # 176	95691	November	*
Chappelle # 177	95692	November	*
Chappelle # 178	95693	November	*
Chappelle # 184	95699	November	* ****
Chappelle # 186	95701	November	*
Chappelle # 188	95703	November	*
Chappelle # 190	95705	November	*
Chappelle # 192	95707	November	*
Chappelle # 194	95709	November	*
Chappelle # 195	95710	November	*
Chappelle # 196	95711	November	*
Chappelle # 197	95712	November	*
Chappelle # 198	96066	November	*
Chappelle # 199	96067	November	* ****
Chappelle # 201	96069	November	* ****
Chappelle # 203	96071	November	* ****
Chappelle # 204	96072	November	* ****
Chappelle # 205	96073	November	*
Chappelle # 206	96074	November	*
Chappelle # 207	96075	November	*
Chappelle # 208	96076	November	*
Chappelle # 209	96077	November	*
Chappelle # 217	96085	November	****
Chappelle # 218	96086	November	****
Chappelle # 219	96087	November	****
Chappelle # 220	96088	November	****
Chappelle # 221	96089	November	****

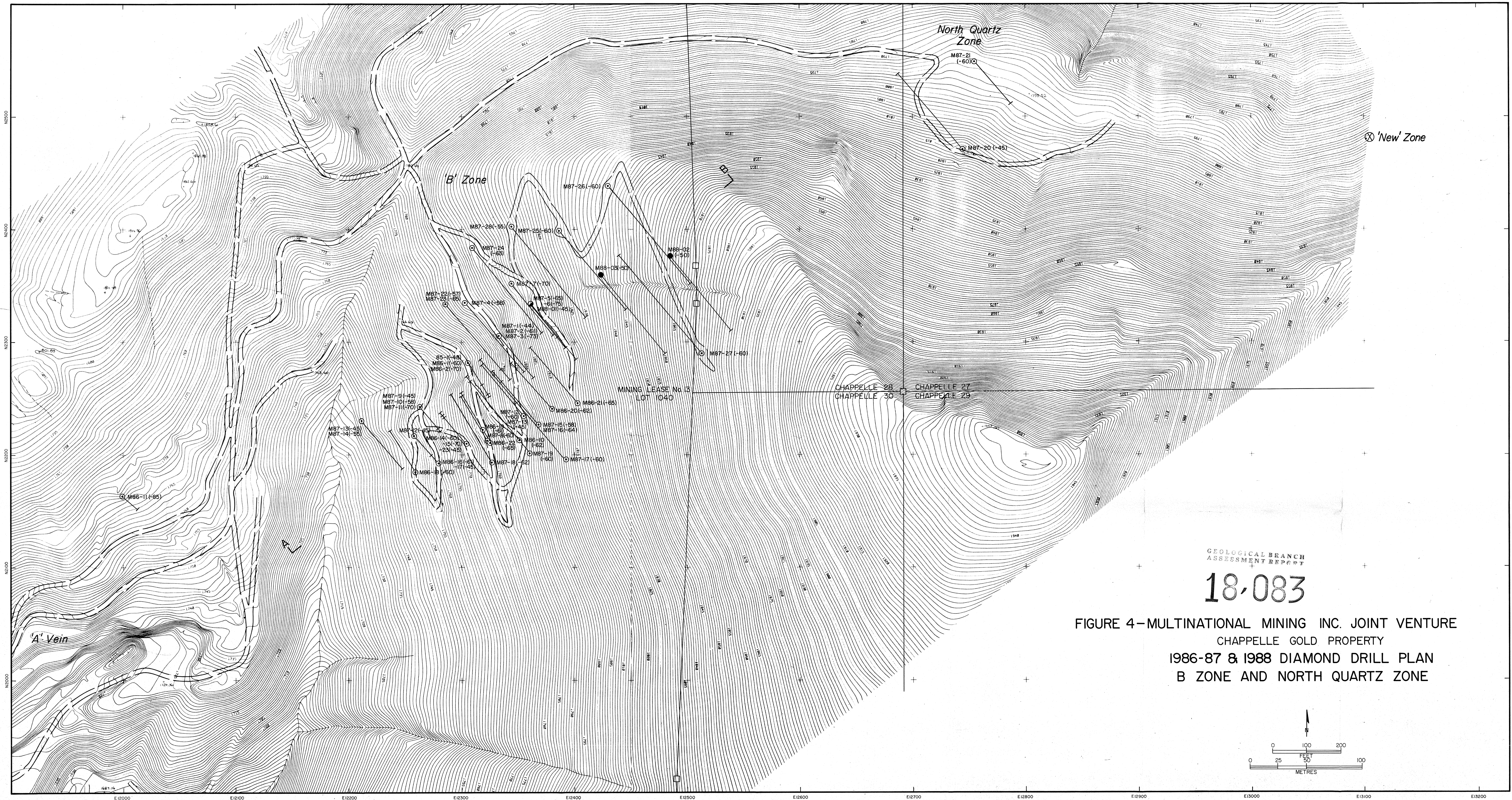
<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>MONTH OF RECORD</u>	
Chappelle # 245	95528	November	*
Chappelle # 246	95529	November	*
Chappelle # 247	95530	November	*
Chappelle # 248	95531	November	* ****
Chappelle # 249	95532	November	* ****
Chappelle # 250	95533	November	* ****
Chappelle # 256	95713	November	** ****
Chappelle # 257	95714	November	** ****
Chappelle # 258	95715	November	** ****
Chappelle # 259	95716	November	** ****
Chappelle # 260	95717	November	**
Chappelle # 261	95718	November	**
Chappelle # 262	95719	November	**
Chappelle # 263	95720	November	**
C.W. 1 Fraction	122632	April	****
PEL	5733	August	***
GOLDEN WARRIER	8028	October	***
MUT 1	8986	September	****
MUT 2	8987	September	****

* Mineral Claims Grouped - September, 1986.

** Claims currently held by Du Pont Canada Inc.

*** Mineral Claims Grouped September, 1987

**** Mineral Claims Grouped September, 1988



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18-083

FIGURE 4—MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
1986-87 & 1988 DIAMOND DRILL PLAN
B ZONE AND NORTH QUARTZ ZONE

